

**ABSTRACT OF THE DISCLOSURE**

The present invention relates to a condenser for radiating heat of a high temperature and high pressure refrigerant discharged from a compressor to room temperature air and cooling water to condense and liquefy the refrigerant, and more particularly, to a condenser provided with a condensing tube and a cooling plate for helping heat radiation of the condensing tube, the condensing tube and the cooling plate being provided in various structures, thereby improving a condensation efficiency.

10 The condenser includes: a condensing tube 10 including a refrigerant inlet 12 formed at one end thereof, a refrigerant outlet 14 formed at the other end thereof, and a passage pipe 16 having a heat radiation protrusion formed on an outer circumference thereof; and a cooling plate having a groove 22 on

15 which the condensing tube is mounted so as to prevent a separation of the condensing tube, and a plurality of bent pieces 24 formed protruding from left and right sides of the groove 22.